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 1 [Performance analysis of evolving wireless IEEE 802.11 security architectures](#)

Andrew Gin, Ray Hunt

 September 2008 **Mobility '08: Proceedings of the International Conference on Mobile Technology, Applications, and Systems**

 Publisher: ACM [Request Permission](#)

 Full text available: [PDF](#) (388.70 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 92, Downloads (12 Months): 389, Downloads (Overall): 389, Citation Count: 0

Degradation in performance has been a common reason for the limited use of security in Wireless LAN equipment such as wireless PCs and embedded devices such as PDAs. However, such performance has been in part upon the technical options chosen for ...

**Keywords:** IEEE 802.11i, IEEE 802.1x, PDA (personal digital assistant), TKIP (temporal key integrity protocol), WiFi protected access (WPA, WPA2), performance analysis, wireless LAN

 2 [Wireless hotspots: current challenges and future directions](#)

Anand Balachandran, Geoffrey M. Voelker, Paramvir Bahl

 June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

 Full text available: [PDF](#) (780.01 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 279, Downloads (Overall): 1512, Citation Count: 4

In recent years, wireless Interact service providers (WISPs) have established Wi-Fi hotspots in increasing numbers at public venues, providing local coverage to traveling users and empowering them with the ability to access email, Web, and other Internet ...

**Keywords:** deployment, performance

 3 [Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis](#)

Marco Gruteser, Dirk Grunwald

 June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

 Full text available: [PDF](#) (2.31 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 90, Downloads (Overall): 470, Citation Count: 12

The recent proliferation of wireless local area networks (WLAN) has introduced new location privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify each ...

**Keywords:** location privacy, wireless LAN

4 [Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis](#)



[Marco Gruteser, Dirk Grunwald](#)

September 2003 **WASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (410.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 41, Downloads (Overall): 927, Citation Count: 13

The recent proliferation of wireless local area networks (WLAN) has introduced new location privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify ...

**Keywords:** interface identifiers, location privacy, wireless LAN

5 [Vehicular grid communications: the role of the internet infrastructure](#)



[Mario Gerla, Bao Zhou, Yeng-Zhong Lee, Fabio Soldo, Uichin Lee, Gustavo Marfia](#)

August 2006 **WICON '06: Proceedings of the 2nd annual international workshop on Wireless internet 2006**

Publisher: ACM

Full text available: [PDF](#) (383.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 136, Downloads (Overall): 565, Citation Count: 2

Vehicle communications are becoming a reality, driven by navigation safety requirements and by the investments of car manufacturers and Public Transport Authorities. As a consequence many of the essential vehicle grid components (radios, Access Points, ...

**Keywords:** VANET, ad hoc networks, geo location service, geo routing, infrastructure support, load balancing

6 [People, places, things: web presence for the real world](#)

[Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Miriana Spasojovic](#)

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [PDF](#) (248.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 131, Downloads (Overall): 1715, Citation Count: 27

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs "Cooltown" project we have been exploring these opportunities through an infrastructure ...

**Keywords:** location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

7 [Improving loss resilience with multi-radio diversity in wireless networks](#)



[Allen Liu, Hari Balakrishnan, Can Emre Koksal](#)

August 2005 **MobiCom '05: Proceedings of the 11th annual international conference on Mobile computing and networking**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (1.26 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 65, Downloads (Overall): 1009, Citation Count: 33

This paper describes the Multi-Radio Diversity (MRD) wireless system, which uses path diversity to improve loss resilience in wireless local area networks (WLANs). MRD coordinates wireless receptions among multiple radios to improve loss resilience in ...

**Keywords:** bit-error, frame combining, packet combining, path diversity, performance, wireless LAN, wireless networks

8 [COMBINE: leveraging the power of wireless peers through collaborative downloading](#)

 [Ganesh Ananthanarayanan, Venkata N. Padmanabhan, Lenin Ravindranath, Chandramohan A. Thekkath](#)

June **MobiSys '07: Proceedings of the 5th international conference on Mobile systems, applications and services**

**Publisher:** ACM 


Full text available:  [281](#) (358.45 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 125, Downloads (Overall): 397, Citation Count: 4

Mobile devices are increasingly equipped with multiple network interfaces: Wireless Local Area Network (WLAN) interfaces for local connectivity and Wireless Wide Area Network (WWAN) interfaces for wide-area connectivity. The WWAN typically provides much ...

**Keywords:** accounting, battery, collaborative, multi-homed, power

9 [Privacy enhanced cellular access security](#)

 [Geir M. Kjeften](#)

September 2005 **WiSe '05: Proceedings of the 4th ACM workshop on Wireless security**

**Publisher:** ACM 

Full text available:  [281](#) (230.28 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 64, Downloads (Overall): 961, Citation Count: 1

The 3G cellular access security architectures do not provide satisfactorily user privacy and fail to fully include all three principal entities involved in the security context. In this paper we propose a beyond-3G Privacy Enhanced 3-Way Authentication ...

**Keywords:** access security, entity authentication, wireless privacy

10 [MR2RP: the multi-rate and multi-range routing protocol for IEEE 802.11 ad hoc wireless networks](#)

[Shiann-Tsong Sheu, Yihita Tsai, Jenhui Chen](#)

March 2003 **Wireless Networks**, Volume 9 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available:  [281](#) (252.69 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 18, Downloads (Overall): 912, Citation Count: 4

This paper discusses the issue of routing packets over an IEEE 802.11 *ad hoc* wireless network with multiple data rates (1/2/5.5/11 Mb/s). With the characteristics of modulation schemes, the data rate of wireless network is inversely proportional ...

**Keywords:** ad hoc, local area network (LAN), medium access control (MAC), routing, wireless

11 [The CoS-RWP mobility and user behavior model for public area wireless networks](#)

 [Giovanni Reina, Paolo Santi](#)

October **MSWiM '06: Proceedings of the 9th ACM international symposium on Modeling analysis and simulation of wireless and mobile systems**

**Publisher:** ACM 

Full text available:  [281](#) (569.47 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 59, Downloads (Overall): 353, Citation Count: 0

Congestion is expected to become a prominent problem to deal with as the popularity of wireless data networks continues to increase. However, this problem can in principle be mitigated if a fraction of the network users could decide to move to another ...

**Keywords:** mobility modeling, quality of service, random waypoint mobility, wireless LAN, wireless mesh networks

12 [High performance wireless switch protocol for IEEE 802.11 wireless networks](#)

[Jen-Hui Chen, Ai-Chun Pang, Shiann-Tsong Sheu, Hau-Wei Tseng](#)

October 2005 **Mobile Networks and Applications** , Volume 10 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available: [PDF](#) (859.40

KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 75, Downloads (Overall): 305, Citation Count: 0

All mobile stations (STAs) in IEEE 802.11 infrastructure wireless local area networks (IWLAN) are coordinated by an access point (AP). Within the 2.4 GHz unlicensed industry, science, and medicine (ISM) band defined in the IEEE 802.11 2.4 GHz physical ...

**Keywords:** CSMA/CA, MAC, ad hoc, infrastructure, switch, wireless

13 [Analysis of the 802.11i 4-way handshake](#)

 [Changhua He, John C. Mitchell](#)

October 2004

**WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security**

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF](#) (328.36

KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 41, Downloads (12 Months): 231, Downloads (Overall): 2245, Citation Count: 5

802.11i is an IEEE standard designed to provide enhanced MAC security in wireless networks. The authentication process involves three entities: the supplicant (wireless device), the authenticator (access point), and the authentication server (e.g., a ...

**Keywords:** 4-way handshake, 802.11i, WLAN, authentication, denial-of-service, key management

14 [Performance optimization of wireless local area networks through VLSI data compression](#)

[Bongjin Jung, Wayne P. Surleson](#)

January 1998 **Wireless Networks** , Volume 4 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available: [PDF](#) (664.69


KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 26, Downloads (Overall): 460, Citation Count: 1

In contrast to wireline communication, the physical bandwidth of RF wireless communication systems is relatively limited and is unlikely to grow significantly in the future. Hence it is advantageous to increase the effective bandwidth of communication ...

15 [On the application of traffic engineering over bluetooth ad hoc networks](#)

 [Sachin Abhyankar, Rishi Toshiwal, Carlos Cordero, Dharma Agrawal](#)

September

**MSWIM '03: Proceedings of the 6th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems**

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF](#) (420.12

KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 76, Downloads (Overall): 1440, Citation Count: 0

The seamless communication of data and voice over short-range, point-to-multipoint wireless links between mobile and/or stationary devices is becoming a reality by newly introduced Bluetooth radio technology for Wireless Personal Area Networking, which ...




**Keywords:** bluetooth, performance evaluation, piconet partitioning, role switching, traffic engineering

16 [Embedding SDL implemented protocols into DSP](#)

-  [Antti Takko, Marko Hännikäinen, Jarno Knuutila, Timo Hämmäinen, Jukka Saarinen](#)  
**November** **CASES '00: Proceedings of the 2000 international conference on Compilers, architecture, and synthesis for embedded systems**  
**Publisher:** ACM  
 Full text available:  [PDF](#) (370.17 KB) **Additional Information:** [full citation](#), [references](#)  
**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 22, Downloads (Overall): 241, Citation Count: 0

**Keywords:** MAC protocol, SDL implementation, wireless LAN




17 [TSR: trust-based secure MANET routing using HMMs](#)

-  [Marie E.G. Moe, Blaine E. Helvik, Svein J. Knapskog](#)  
**October** **Q2SWinet '08: Proceedings of the 4th ACM symposium on QoS and security for wireless and mobile networks**  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  [PDF](#) (258.34 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)  
**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 151, Downloads (Overall): 153, Citation Count: 0

In this paper we propose a trust-based security extension to the mobile ad hoc network dynamic source routing protocol (DSR), where the state probability of a node, according to its corresponding hidden Markov model (HMM), is being used for deciding ...

**Keywords:** HMM, ad-hoc networks, secure routing, stochastic modeling


18 [Inter-Access point communications for distributed resource management in 802.11 networks](#)

-  [Eduard Garcia, Luis Faixó, Rafael Vidal, Josep Paradells](#)  
**September** **WMASH '06: Proceedings of the 4th international workshop on Wireless mobile applications and services on WLAN hotspots**  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  [PDF](#) (404.93 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)  
**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 69, Downloads (Overall): 560, Citation Count: 0

Due to the increasing number of IEEE 802.11 networks, the presence of interference is becoming an important problem to solve. In a single multicell network, the harmful effect of interference is minimized thanks to network planning; but if there are ...

**Keywords:** IEEE 802.11 WLANs, ad-hoc wireless mesh networks, channel allocation, resource management, signalling


19 [Wireless network security: comparison of WEP \(Wired Equivalent Privacy\) mechanism, WPA \(Wi-Fi Protected Access\) and RSN \(Robust Security Network\) security protocols](#)

- [Halil Ibrahim Bulbul, İhsan Batmaz, Mesut Ozel](#)  
**January** **e-Forensics '08: Proceedings of the 1st international conference on Forensic applications and 2008 techniques in telecommunications, information, and multimedia and workshop**  
**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)  
 Full text available:  [PDF](#) (653.89 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#)  
**Bibliometrics:** Downloads (6 Weeks): 298, Downloads (12 Months): 1438, Downloads (Overall): 2026, Citation Count: 0

Wireless Local Area Networks (WLANs) are gaining popularity as they are fast, cost effective, flexible and easy to use. They are, however, faced with some serious security challenges and the choice of security protocol is a critical issue for IT administrators. ...


**Keywords:** RSN, WEP, WPA, WPA2, wireless security

20 [802.11n: the new wave in WLAN technology](#)

 [Abdurrahman Yaracli, Babak Ahsani](#)

September 2007 **Mobility '07: Proceedings of the 4th international conference on mobile technology, applications, and systems and the 1st international symposium on Computer human interaction in mobile technology**

**Publisher:** ACM

Full text available:  [PDF](#) (166.62 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 58, Downloads (12 Months): 315, Downloads (Overall): 504, Citation Count: 0

This paper presents an overview of the new IEEE 802.11n standard which is the first wireless LAN standard based on MIMO-OFDM (Multiple Input Multiple Output-Orthogonal Frequency Division Multiplexing). The Paper describes how MIMO-OFDM technology delivers ...

**Keywords:** 80211.n, DS-UWB, MIMO, OFDM, WLAN, integration, last mile access, mobility

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